

ABSTRACT AMENDMENTS

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ABSTRACT

Lens aberration in an objective lens for recording and reproducing optical information, which is composed of a molded aspherical single lens, is inhibited while at the same time good lens productivity is attained. Also attained are excellent optical properties and high production efficiency in a mold processing step and a press molding step conducted to manufacture the lens. To this end there is provided an objective lens 1 having a convex aspherical surface formed at a first surface and a numerical aperture NA which satisfies the condition $NA \geq 0.8$. It is preferable to have an aspherical surface also at the second surface. A molding material that was premolded to a prescribed shape and is in a heated and softened state is press molded by using a pair of upper and lower molds having opposing molding surfaces, a molding surface shape is transferred by using a spherical molding material with a radius r and pressing the molding material between a pair of upper and lower molds, and the paraxial curvature radius R of the convex aspherical surface satisfies the following relation $r/R \leq 1.35$.